

# WGO

## Wallops Geophysical Observatory

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Engineering Lead

Civil Servant Support

TBD

Contract Support

TBD

# Task Definition

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- Develop a system to ingest, archive and display data collected from several disparate geophysical sensors.
- Display the data in the Wallops Range Control Center for use during range operations.
- Display the data remotely, through the Wide World Web, to scientists and other interested parties.
- Facilitate the addition of yet to be determined sensors to the system.

# Concept

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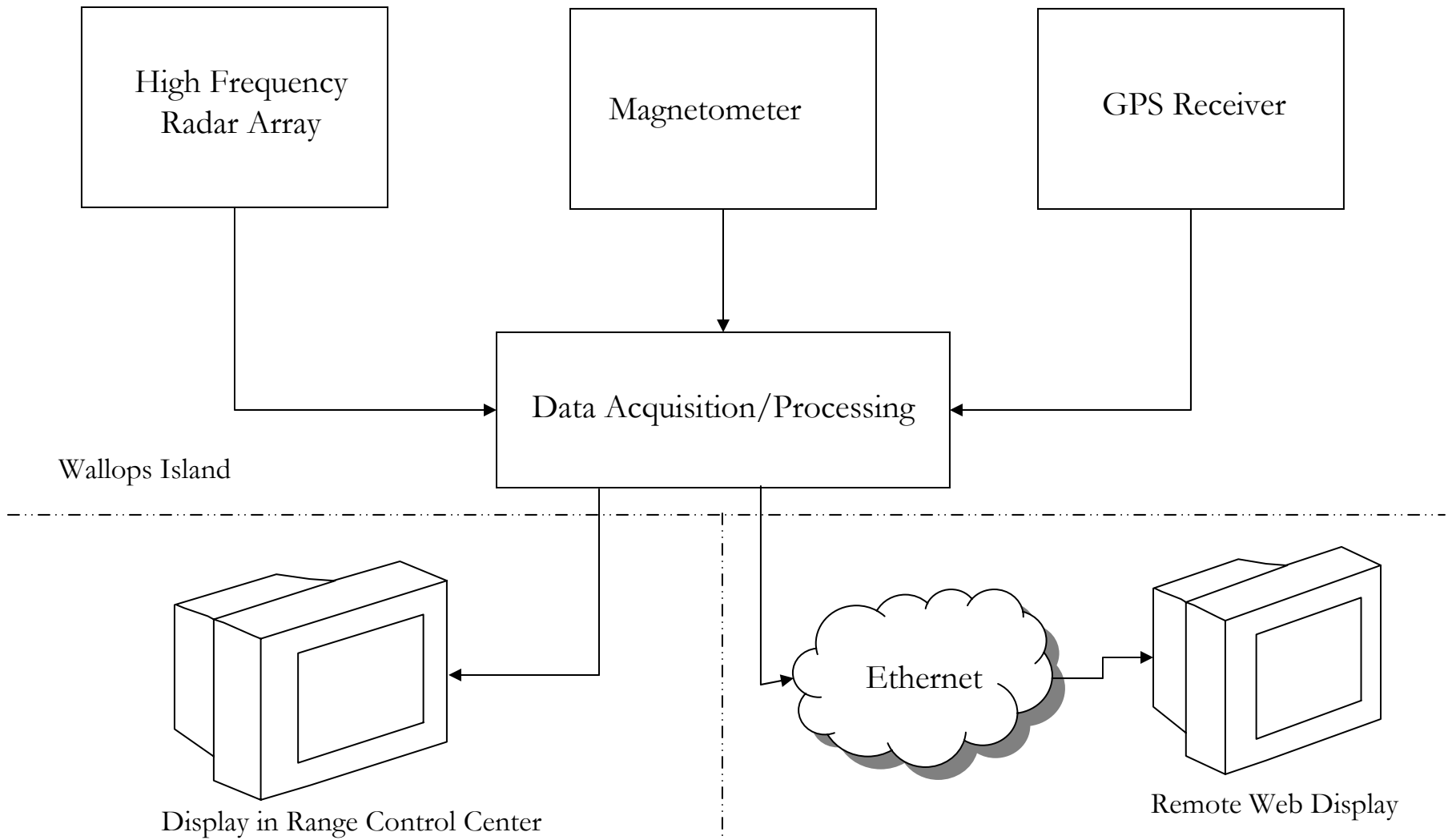
- The Wallops Geophysical Observatory ( aka Wallops Geophysical Laboratory ) is a system of sensors interfaced to a centralized data acquisition/processing system. The primary deliverable of this system is the display of the near real time data in the Wallops RCC and at the scientists desktop. The collected data will also be archived for post processing.

# Instruments to be Interfaced

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- Magnetometer
- GPS receiver
- High Frequency Radar Array
- VHF Scintillation Receivers (Proposed)
- Dynasonde (Proposed)

# Architecture



# Resources

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## Available Funds

Software	5K
Integration/Development Labor	15K
Support (including Computer Hardware)	21K
(also includes undetermined amount for trailer rehabilitation ~5K)	

# Schedule

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Schedule will be developed when availability of CS/Contractor resources is known.

Requirement from Principal Investigator is to have magnetometer data available at his desktop (via www) before the end of Calendar Year 2004.

HF RADAR Investigator also expects completion prior to end of CY 2004, but this date is dependent upon construction of antenna array, which is beyond the control of AETD.

# Status

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- Currently investigating contractor/civil servant support. Received JO for CS support on 4/27/04, and OK to use funds for contractor support 4/28/04.
- Initiating Task Order for contractor support. Anticipate 1 programmer for 1/2 time for two or three months.